






































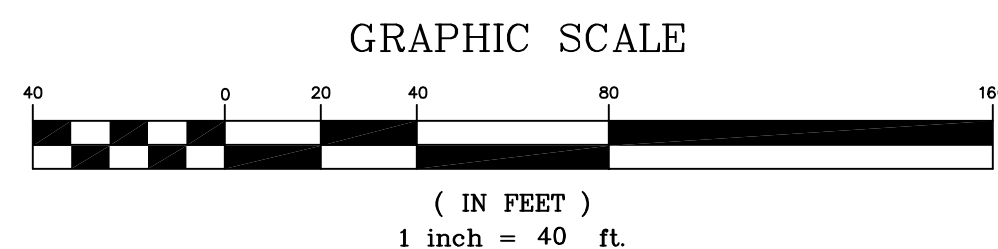


- ## LEGEND
- | | |
|---|-----------------------------|
|  | IRON ROD FOUND |
|  | IRON PIPE FOUND |
|  | 5/8" REBAR PROPOSED |
|  | UTILITY POLE |
|  | GUY ANCHOR |
|  | OVERHEAD UTILITY LINE |
|  | BELOW GROUND ELECTRIC LIGHT |
|  | |
|  | HYDRANT |
|  | |
|  | WATER VALVE |
|  | WELL |
|  | |
|  | MONITORING WELL |
|  | UNDERGROUND WATER LINE |
|  | SIGN |
|  | EXISTING CONTOUR |
|  | PROPOSED CONTOUR |
|  | SURVEYED LINE |
|  | STOCKADE FENCE |
|  | |
|  | WIRE FENCE |
|  | GUARDRAIL |
|  | STONE WALL |
|  | CATCH BASIN |
|  | |
|  | STORM PIPE |
|  | |
|  | SANITARY MANHOLE |
|  | SANITARY LINE |
|  | SETBACK |
|  | TEST PIT |
|  | CONIFEROUS TREE |
|  | |
|  | DECIDUOUS TREE |
|  | |
|  | VEGETATION |
|  | |
|  | APPROXIMATE WETLANDS |



GENERAL SITE INFORMATION:

1. OWNER: BADJ PROPERTIES, LLC.
P.O. BOX 424
HALLOWELL, ME 04347
2. AUGUSTA TAX MAP 53 LOT 22
3. KENNEBEC COUNTY REGISTRY OF DEEDS:
BOOK 11864 PAGE 24
4. ZONE: INDUSTRIAL DISTRICT (IA)
5. IMPERVIOUS AREA:
EXISTING IMPERVIOUS=29,550 SF
NEW IMPERVIOUS= 120,905 SF
NET NEW IMPERVIOUS= 91,355 SF
6. DISTURBED AREA: 167,340 SF
7. PARKING:
REQ'D: 3 PER 1,000 SF OF BUILDING = 3 SPACES
ACTUAL: 5 SPACES
8. WETLAND IMPACTS: 0 SF

A circular professional engineer seal for the State of Maine. The outer ring contains the text "STATE OF MAINE" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal contains the text "JAMES E. COFFIN" and "8500" below it. The word "LICENSED" is written in a smaller arc above the bottom text. Below the seal is a handwritten signature that reads "James E. Coffin".



E.S. COFFIN
ENGINEERING
SURVEYING
© 2015
E.S. COFFIN ENGINEERING & SURVEYING, INC.
432 Corn Road, P.O. Box 4687 Augusta, Maine 04330
Ph: (207) 623-0475 Fax (207) 623-0016 Toll Free 1-800-244-0475

No.				REVISIONS	DATE

PROPOSED SITE PLAN

SUBJECT:
BADJ PROPERTIES, LLC.
JOHN CLARK

PROPE
JOHN C
AN ROAD

CLIENT/PROJECT:	BAI
LOCATION:	79 LI

PROJ. NO. 2014-281

C-1

GENERAL NOTES

1. AGGREGATE FOR GRAVEL BASE

AGGREGATE FOR GRAVEL BASE SHALL BE SCREENED OR CRUSHED GRAVEL OF HARD DURABLE PARTICLES FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES. THE GRADATION OF THE PART THAT PASSES A 3 INCH SIEVE SHALL MEET THE GRADING REQUIREMENTS OF THE FOLLOWING TABLE:

SIEVE DESIGNATION	PERCENTAGE BY WEIGHT PASSING SQUARE MESH SIEVES	
	TYPE A AGGREGATE	TYPE D AGGREGATE
1/2 INCH	45-70	----
1/4 INCH	30-55	25-70
No. 40	0-20	0-30
No. 200	0-5	0-5

TYPE "A" AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 2 INCH SQUARE MESH SIEVE.

TYPE "D" AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 6 INCH SQUARE MESH SIEVE.

EACH LAYER AS APPLIED SHALL BE ROLLED WITH A 20 TON ROLLER. THE MATERIAL AS SPREAD SHALL BE WELL MIXED WITH NO POCKETS OF EITHER FINE OR COARSE MATERIAL. OVER SIZED STONES SHALL BE REMOVED FROM THE AGGREGATE.

EACH LAYER OF AGGREGATE SHALL BE PLACED OVER THE FULL WIDTH OF THE SECTION. AGGREGATE BASE AND SUB-BASE COURSES MAY BE PLACED UPON FROZEN SURFACES WHEN SUCH SURFACES HAVE BEEN PROPERLY CONSTRUCTED.

THE SURFACE OF EACH LAYER SHALL BE MAINTAINED DURING COMPACTION OPERATIONS IN SUCH A MANNER THAT A UNIFORM TEXTURE IS PRODUCED AND THE AGGREGATE IS FIRMLY KEYED. THE MOISTURE CONTENT OF THE MATERIAL SHALL BE MAINTAINED AT THE PROPER PERCENT TO ATTAIN THE REQUIRED COMPACTION AND STABILITY. COMPACTION OF EACH LAYER SHALL BE CONTINUED UNTIL DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY" HAS BEEN ACHIEVED FOR THE FULL WIDTH AND DEPTH OF EACH LAYER AS APPLIED.

THE SURFACE TOLERANCE OF EACH BASE COURSE AS APPLIED SHALL BE 3/8 INCHES ABOVE OR BELOW THE REQUIRED TEMPLATE LINES.

2. AGGREGATE FOR SUB-BASE

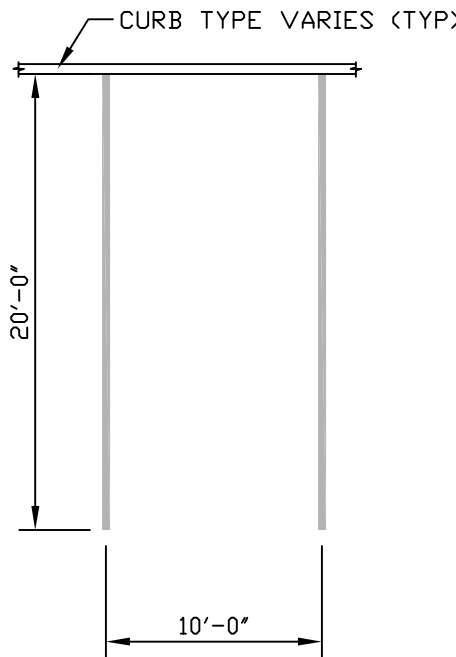
AGGREGATE FOR SUB-BASE SHALL BE TYPE "D" (MDOT). IT SHALL BE FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES.

3. COMMON BORROW

COMMON BORROW SHALL CONSIST OF EARTH, SUITABLE FOR EMBANKMENT CONSTRUCTION. IT SHALL BE FREE FROM FROZEN MATERIAL, PERISHABLE RUBBISH, PEAT AND OTHER UNSUITABLE MATERIAL.

THE MOISTURE CONTENT SHALL BE SUFFICIENT TO PROVIDE THE REQUIRED COMPACTION AND STABLE EMBANKMENT. IN NO CASE SHALL THE MOISTURE CONTENT EXCEED 4 PERCENT ABOVE OPTIMUM.

ALL COMMON BORROW AND GRAVEL AREAS TO BE COMPACTED TO 95 % OF ITS MAX. DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY". PLACE IN 9" TO 12" LIFTS.



TYPICAL PARKING STALL

SPECIFICATIONS

PAVEMENT MARKING PAINT FOR FINAL AND TEMPORARY PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF AASHTO M248. EITHER TYPE N (REGULAR TRAFFIC PAINT) OR TYPE F (FAST DRY TRAFFIC PAINT) MAY BE USED.

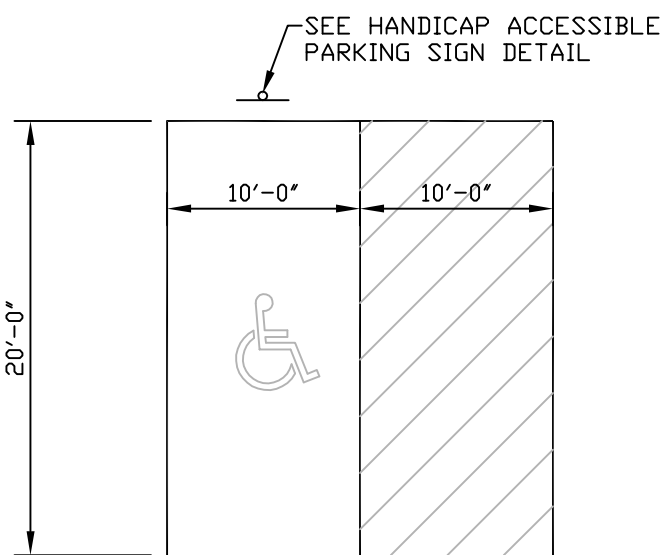
ALL PAVEMENT LINES AND MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

IMMEDIATELY BEFORE APPLYING THE PAVEMENT PAINT TO THE PAVEMENT OR CURB, THE SURFACE SHALL BE DRY AND ENTIRELY FREE FROM DIRT, GREASE, OIL OR OTHER FOREIGN MATTER.

ALL PAVEMENT MARKING LINES SHALL BE 4" SOLID WHITE.

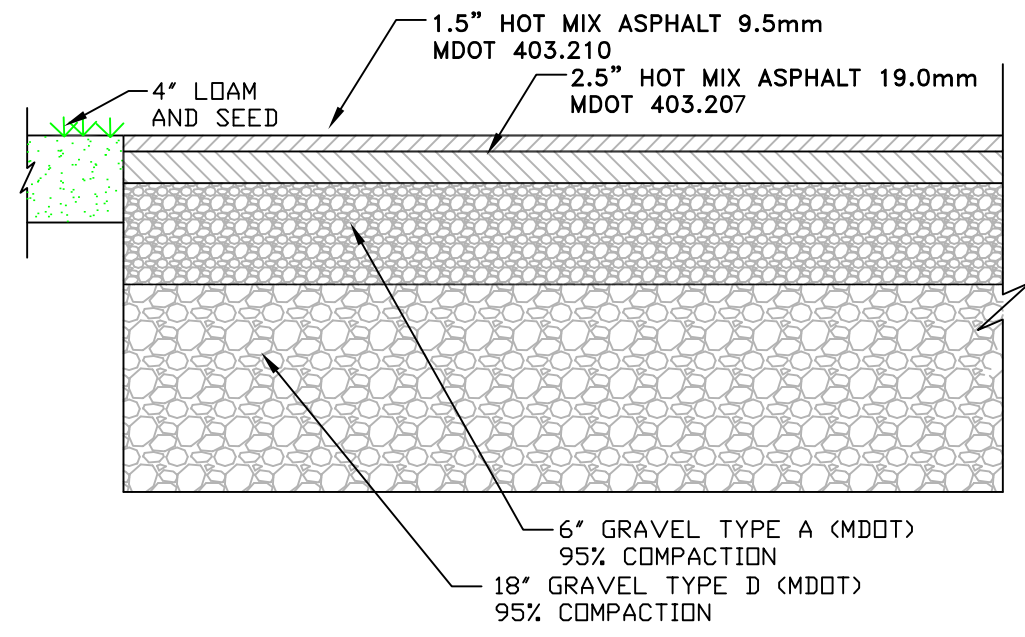
PAVEMENT MARKING DETAIL & SPECIFICATION

NOT TO SCALE



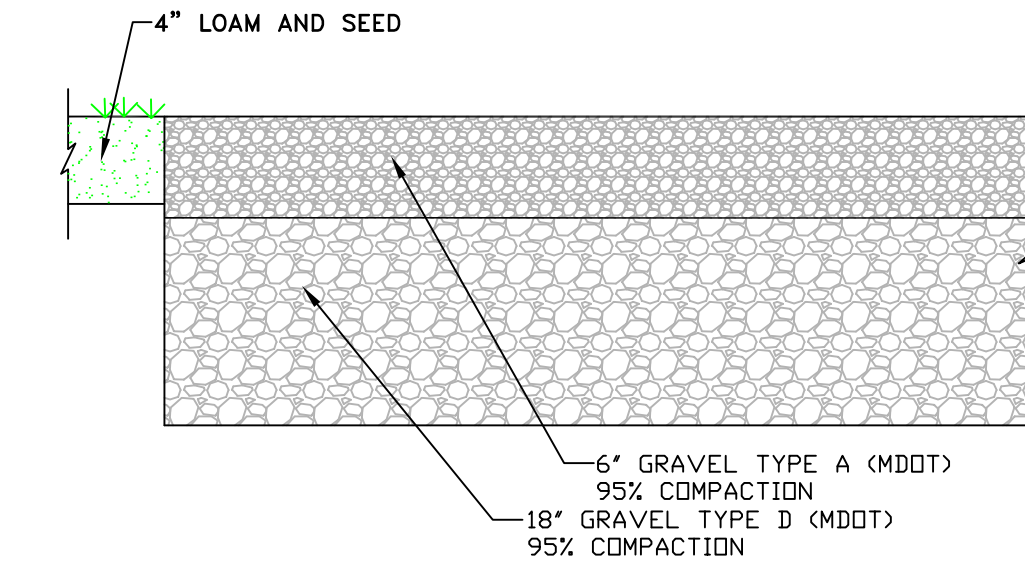
HANDICAP PARKING DETAIL

NOT TO SCALE



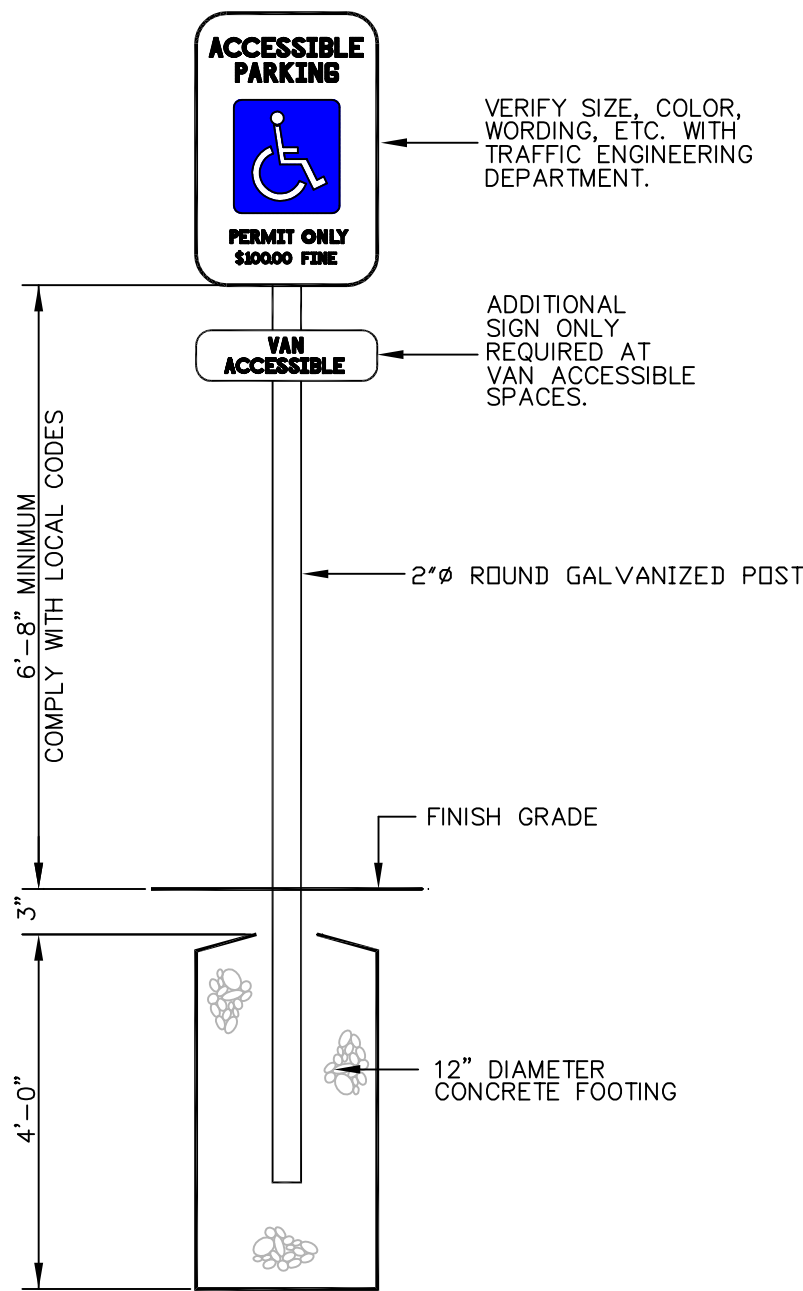
PAVED DRIVE DETAIL

NOT TO SCALE



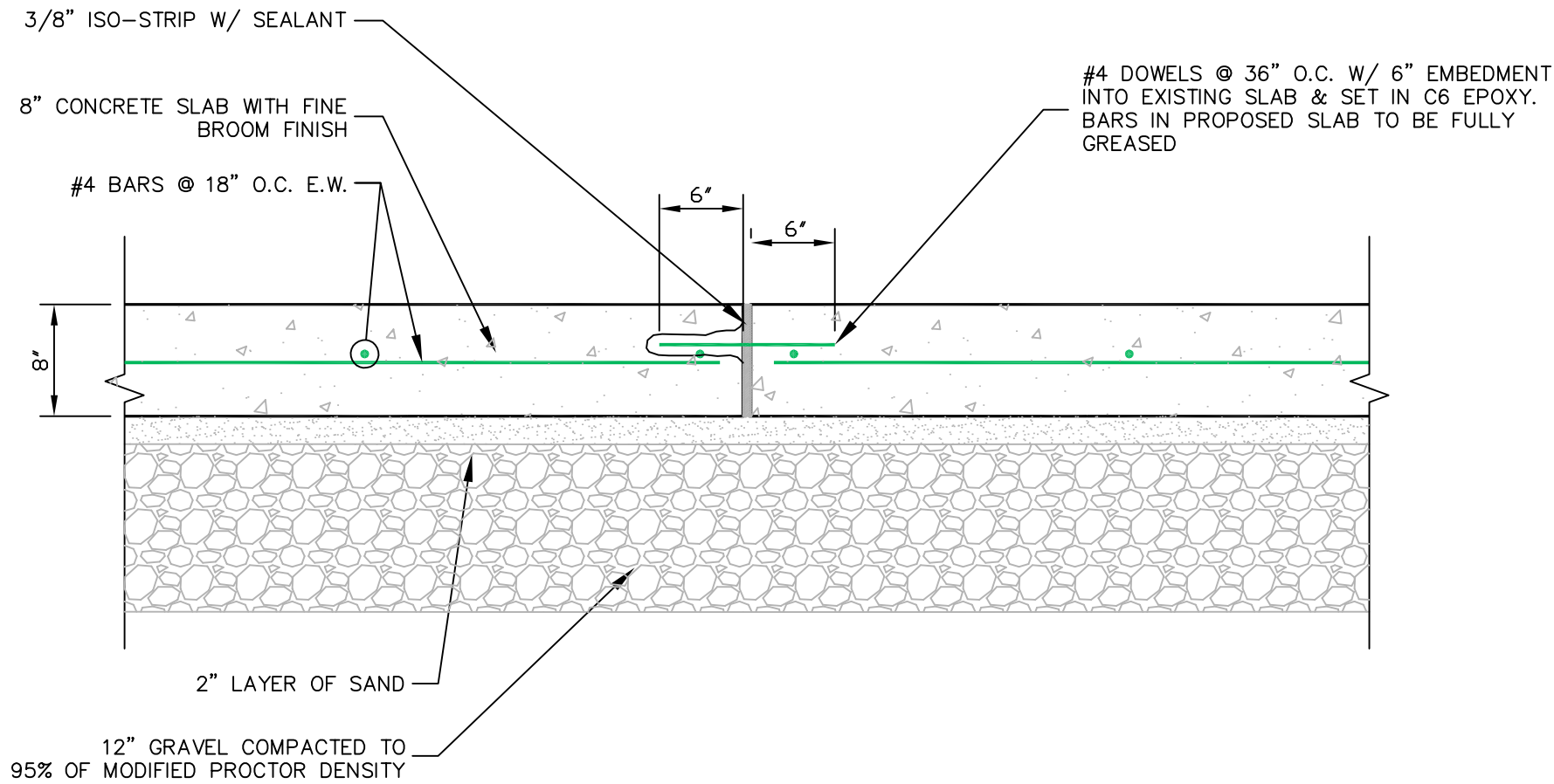
GRAVEL DRIVE DETAIL

NOT TO SCALE



ACCESSIBLE PARKING SIGN DETAIL

NOT TO SCALE



TYPICAL SLAB COLD JOINT SECTION

SCALE 3/4" = 1'-0"

CONCRETE NOTES

PART 1 - GENERAL

1.01 GENERAL

- ADHERE TO ACI COLD WEATHER CONCRETE SPECIFICATIONS, WHEN APPLICABLE.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MAINTAIN STABILITY AND PREVENT UNDERMINING OF EXISTING FOUNDATIONS AT ALL TIMES.
- NO FOUNDATIONS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- ALL FOOTINGS ARE TO BE EXCAVATED USING A BUCKET WITH A SMOOTH TOOTHLESS CUTTING EDGE. FOOTING EXCAVATIONS ARE TO BE FINISHED BY HAND FOR NOT LESS THAN THE LAST SIX INCHES.
- ALL FINISHED FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE STRUCTURAL ENGINEER OR HIS DESIGNATE BEFORE ANY CONCRETE IS PLACED.
- THE OWNER, THE STRUCTURAL ENGINEER AND THEIR CONSULTANTS ASSUME NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS, SPECIFICATIONS, TEST BORINGS OR TEST PITS.
- DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315 - "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," LATEST EDITION.

PART 2 - PRODUCTS

2.01 MATERIAL

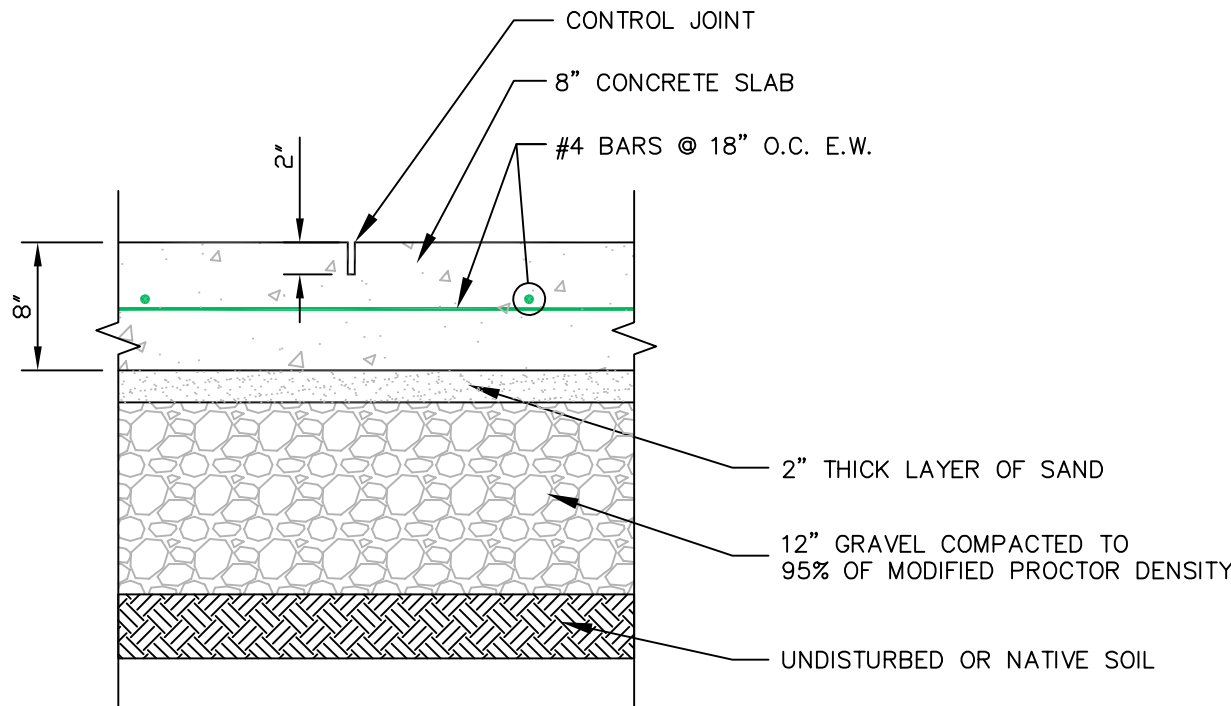
- REINFORCING:
 - SHALL BE GRADE 60, NEW DEFORMED BARS AND SHALL CONFORM TO ASTM A615. ALL REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706.
 - REINFORCING BARS MAY NOT BE WELDED EXCEPT WHERE DESIGNATED BY THE STRUCTURAL ENGINEER.
 - CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE PROVIDED AS FOLLOWS:
 - SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3 INCHES (CLEAR)
 - ALL HOOKS SHOWN ON DRAWINGS SHALL BE STANDARD HOOKS UNLESS NOTED OTHERWISE.
 - WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES, OR HOOKED AT DISCONTINUOUS ENDS. LAP LENGTHS SHALL BE AS GIVEN IN THE SPLICE AND DEVELOPMENT TABLE. LAP BEAM TOP BARS AT MID-SPAN AND BEAM BOTTOM BARS AT SUPPORTS, UNLESS NOTED OTHERWISE.
- EXTERIOR SLAB MIX DESIGN:
 - 4000 PSI
 - 1 1/2" STONE
 - SLUMP 5" +/- 1"
 - 6 % AIR ENTRAINMENT
 - SEE DETAILS FOR REINFORCING
 - LIGHT BROOM FINISH

PART 3 - EARTHWORK

3.01 EARTHWORK

- SITE WORK AND CONCRETE CONTRACTORS ARE REQUIRED TO REVIEW THE ONSITE SUBSURFACE SOIL CONDITIONS WITH THE OWNER AT THE START OF INITIAL CONSTRUCTION. SITE CONTRACTOR WILL NOTIFY ENGINEER AFTER EXCAVATION HAS STARTED AND PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FOUNDATIONS.
- REMOVE ALL TOPSOIL AND UNCONTROLLED FILL FOR THE AREAS RECEIVING BUILDING FOUNDATIONS.
- BACK FILL TO THE NECESSARY SUBGRADES REQUIRED ON THE STRUCTURAL FOUNDATION PLANS WITH CONTROLLED STRUCTURAL FILL MATERIAL MEETING THE FOLLOWING GRADATION:

PERCENT PASSING	SCREEN OR SIEVE SIZE
6	100
3	90-100
NO. 4	35-70
NO. 40	5-35
NO. 200	0-5
- PLACE CONTROLLED STRUCTURAL FILL IN UNIFORM LIFTS AND COMPACT TO A MINIMUM DENSITY IN ACCORDANCE WITH ASTM D1557 "MODIFIED PROCTOR DENSITY".
- PROVIDE SITE GRADING AROUND THE PERIMETER OF THE BUILDING TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE FOUNDATION DURING AND AFTER CONSTRUCTION.
- MAINTAIN THE INTEGRITY OF NATURAL SOLIDS AND CONTROLLED STRUCTURAL FILLS DURING CONSTRUCTION. PROTECT FOOTING AND STRUCTURE SUBGRADES AGAINST FREEZING AND EXCESSIVE WETTING. REMOVE AND REFILL FROZEN SUBGRADES, MOISTURE CONDITION, OR REPLACE EXCESSIVELY WET SUBGRADE MATERIALS.
- NOTIFY ENGINEER TO OBSERVE SUBGRADES PRIOR TO PLACING FOOTINGS. FOOTINGS ARE DESIGNED FOR A MIN. SOIL BEARING CAPACITY OF 2500PSF, OR FOR BEARING ON SOUND LEDGE.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER IF LEDGE IS ENCOUNTERED TO DETERMINE FINISH REQUIREMENTS.
- PROOF ROLL SUBGRADE PRIOR TO SLAB CONSTRUCTION. PROVIDE STRUCTURAL FILL MEETING THE GRADATION SPECIFIED HEREIN FOR FILL MATERIALS BELOW THE SLAB, MAXIMUM PERCENT PASSING 200 SIEVE = 7%



TYPICAL SLAB SECTION

SCALE 3/4" = 1'-0"

PART 3 - EXECUTION

3.01 SUBGRADE

- ALL GRADING SHALL BE ACHIEVED AT SUBGRADE TO PROVIDE A CONSTANT THICKNESS OF CONCRETE.
- STRUCTURAL FILL SHALL BE COMPACTED IN 6" LIFTS TO 95% OF ITS MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557.

- SUBGRADE TO CONSIST OF AT LEAST 12" OF COMPACTED SAND OR GRAVEL. THIS MATERIAL SHALL BE "

SCREEN OR SIEVE	SIZE	PERCENT FINER BY WEIGHT
4"		100%
1/2"		35% - 75%
3/4"		25% - 60%
NO. 40		0-25%
NO. 200		0-5%

- DRAINAGE STONE SHALL CONSIST OF CLEAN ANGULAR FRAGMENTS OF QUARRIED ROCK WITH UNIFORM QUALITY AND BE GRADED AS FOLLOWS:

SCREEN OR SIEVE	SIZE	PERCENT FINER BY WEIGHT
2 1/2"		100%
2"		95% - 100%
1"		0 - 30%
1/2"		0 - 5%

3.02 PLACEMENT

- CONCRETE SLAB ON GRADE SHALL BE PLACED IN ONE CONTINUOUS PLACEMENT, WITH NO COLD JOINTS. IF COLD JOINTS ARE DESIRED, CONTRACTOR MUST PROVIDE PLACEMENT SEQUENCE AND JOINT DETAIL FOR ENGINEERS APPROVAL, PRIOR TO PLACEMENT.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN 5% - 7% AIR ENTRAINMENT ADMIXTURE.
- PIPES OR CONDUITS PLACED IN SLABS ON GRADE SHALL NOT BE PLACED CLOSER THAN 3 DIAMETERS ON CENTER AND SHALL HAVE AN OUTSIDE DIAMETER LESS THAN 1/3 OF THE SLAB THICKNESS. ALUMINUM COMPONENTS SHALL NOT BE PLACED IN CONCRETE. NO CONDUITS SHALL BE PLACED IN SLABS ON METAL DECK.
- CONTRACTOR SHALL PROVIDE CONTINUOUS DRAINAGE BY MECHANICAL METHODS TO CONTROL SURFACE AND UNDERGROUND WATER AS REQUIRED. DURING CONSTRUCTION, SO THAT ALL EXCAVATIONS ARE DRY.
- ALL LOCATIONS WHERE BEDROCK IS REMOVED SHALL BE FREE DRAINING SO THAT NO POCKETS OF UNDERGROUND WATER COLLECT.
- ALL EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE CHAMFERED 3/4" UNLESS SHOWN OTHERWISE ON DRAWINGS.
- CONCRETE SLABS SHALL BE MOIST CURED CONTINUOUSLY FOR 7 DAYS BY PLACING

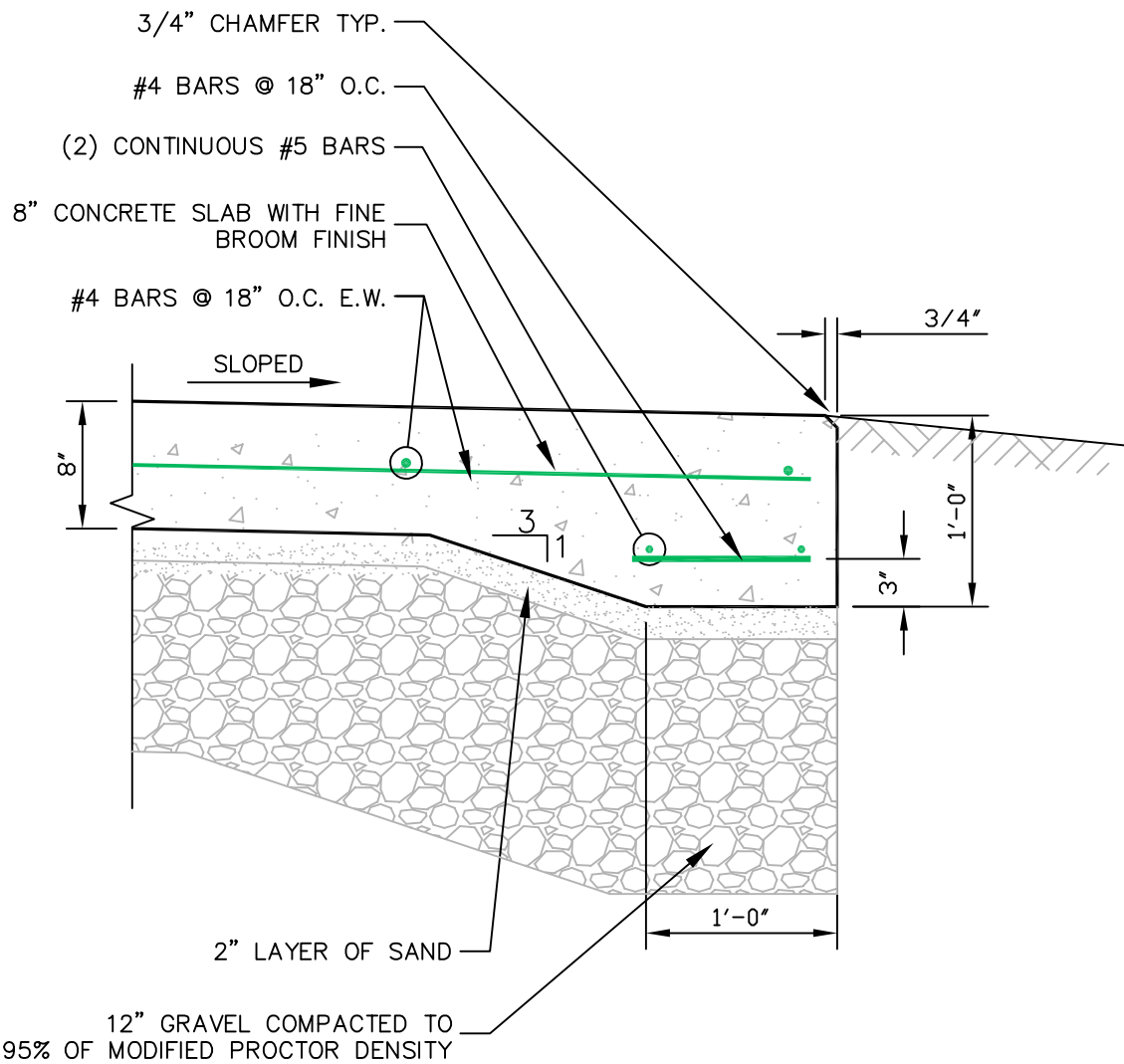
WATER OVER SLAB AFTER FREE WATER HAS DISAPPEARED FROM EXPOSED SURFACES. PLACE MOISTURE RETAINING COVER OVER THE ENTIRE SLAB. PROVIDE PROTECTION AS REQUIRED TO PREVENT DAMAGE TO EXPOSED SURFACES.

- CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F, AND IN MOIST CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT.
- ALL EMBEDMENTS IN CONCRETE, INCLUDING ANCHOR BOLTS, SHALL BE FIRMLY SECURED BY THE WIRE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.
- CONSOLIDATE ALL CONCRETE WITH A VIBRATOR OR OTHER MEANS RECOMMENDED BY

ACI 301. HONEYCOMBED SURFACES WILL NOT BE PERMITTED.

3.03 CONTROL JOINTS

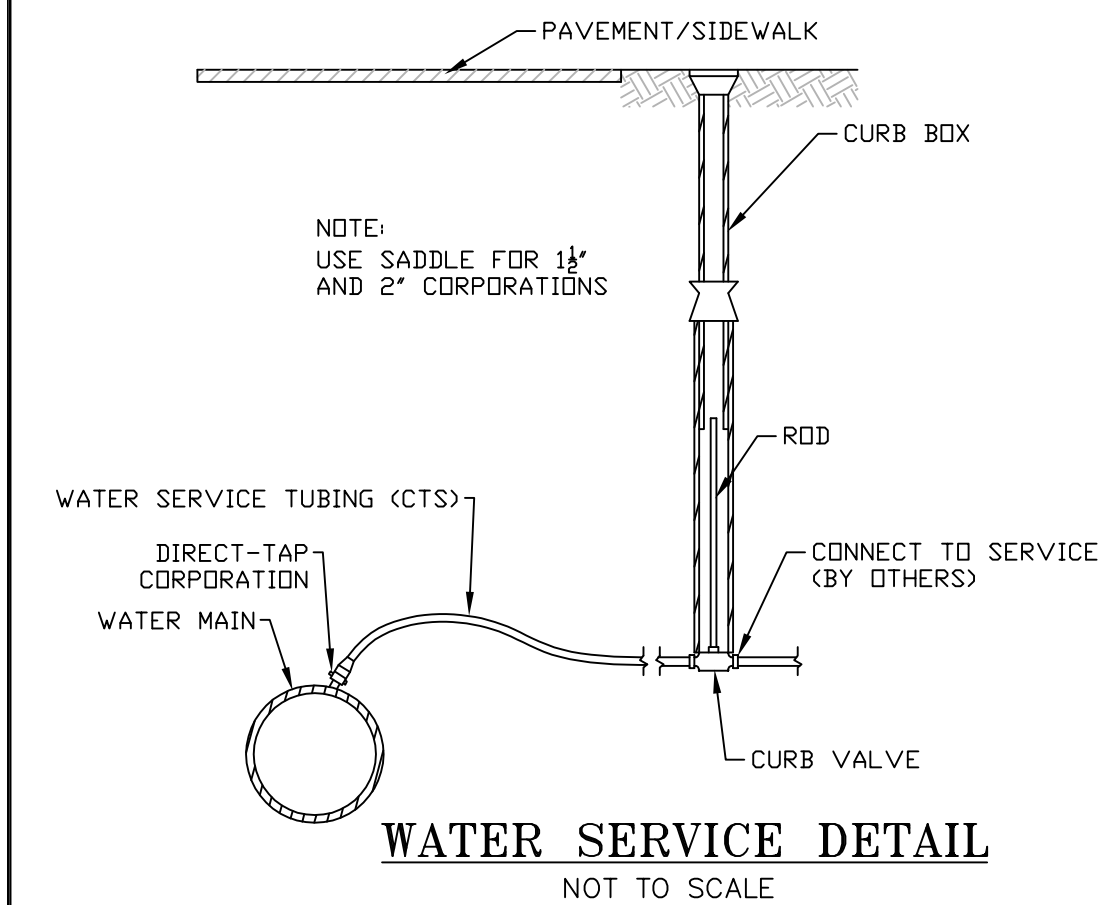
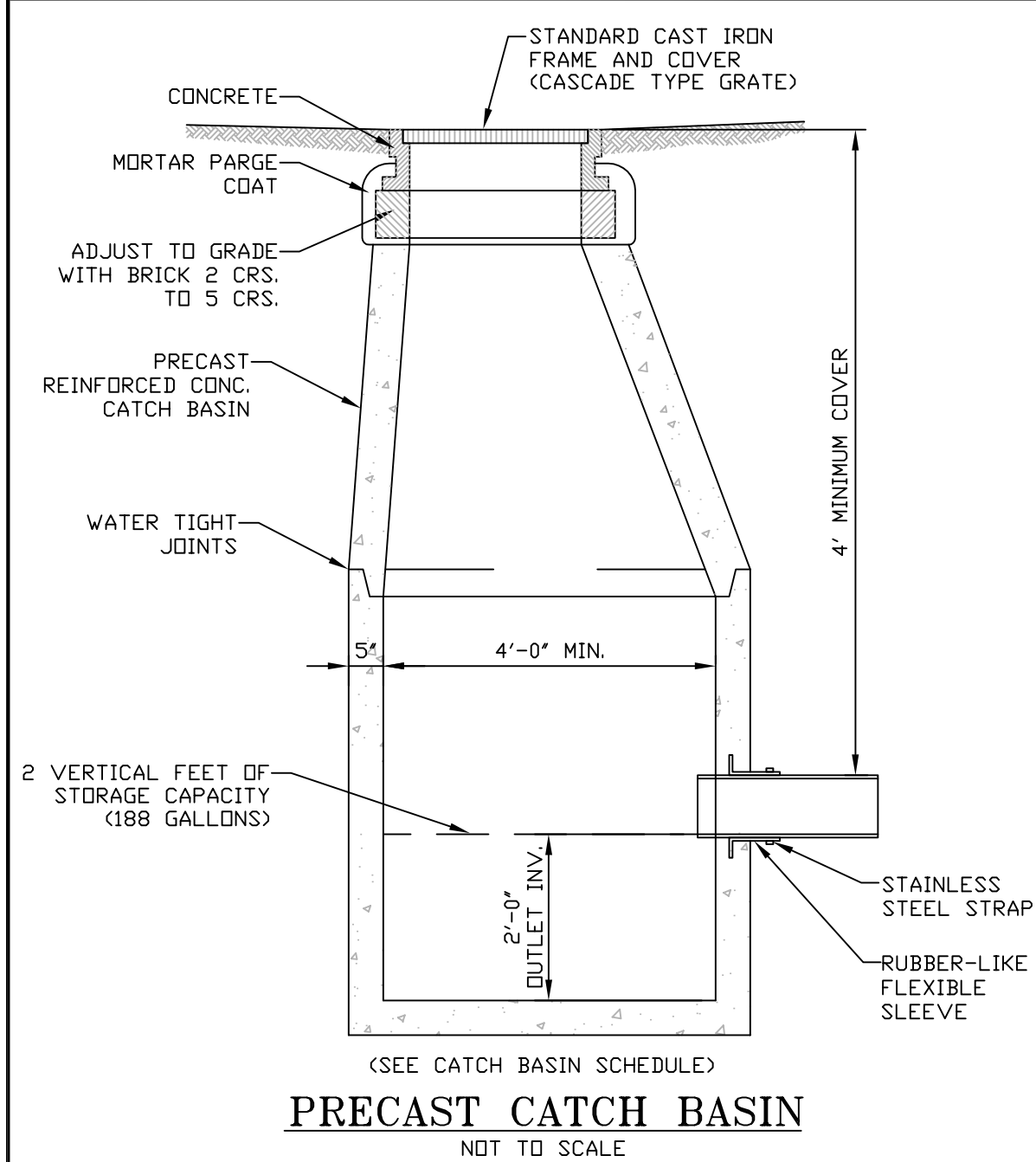
- PLACE CONTROL JOINTS WHERE SHOWN ON THE PLANS. SLAB SECTIONS FORMED WITH CONTROL JOINTS SHOULD BE SQUARE OR NEARLY SQUARE.
- SAW CUT JOINTS IN CONCRETE, AT EACH CONTROL JOINT LOCATION, AS SOON AS SLAB WILL SUPPORT THE WEIGHT OF THE SOFF-CUT SAW AND OPERATOR (NORMALLY WITHIN 2 HOURS AFTER FINISHING AT CONTROL JOINT LOCATION). THE DEPTH OF CUT SHALL BE 1" TO 1 1/4". USE 3/8" DIAMETER SONOFOAM CLOSED CELL BACKER-ROD AND SONOLASTIC SL 2 SEALANT.
- SEAL CONTROL JOINTS TO PREVENT SPALLING OF THE CONCRETE.



TYPICAL SLAB EDGE SECTION

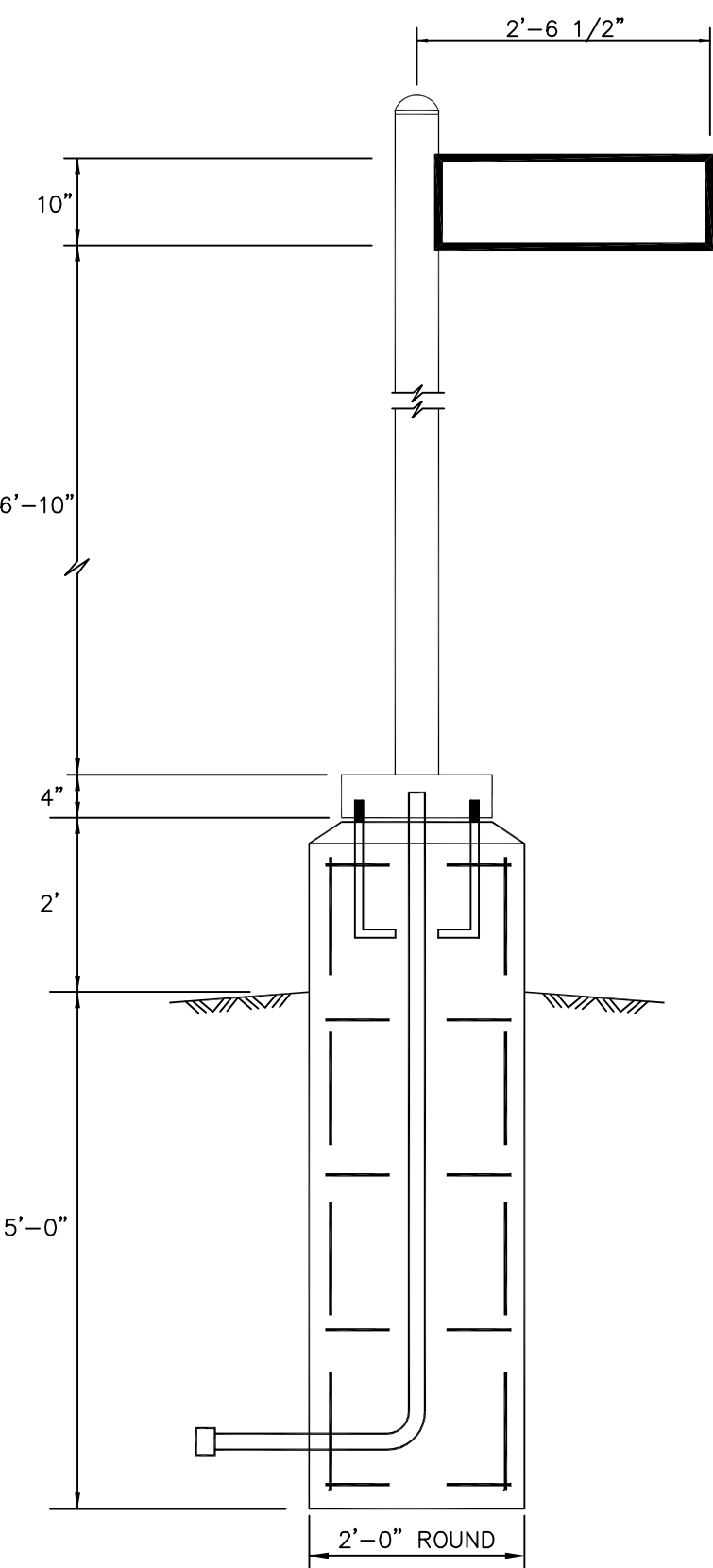
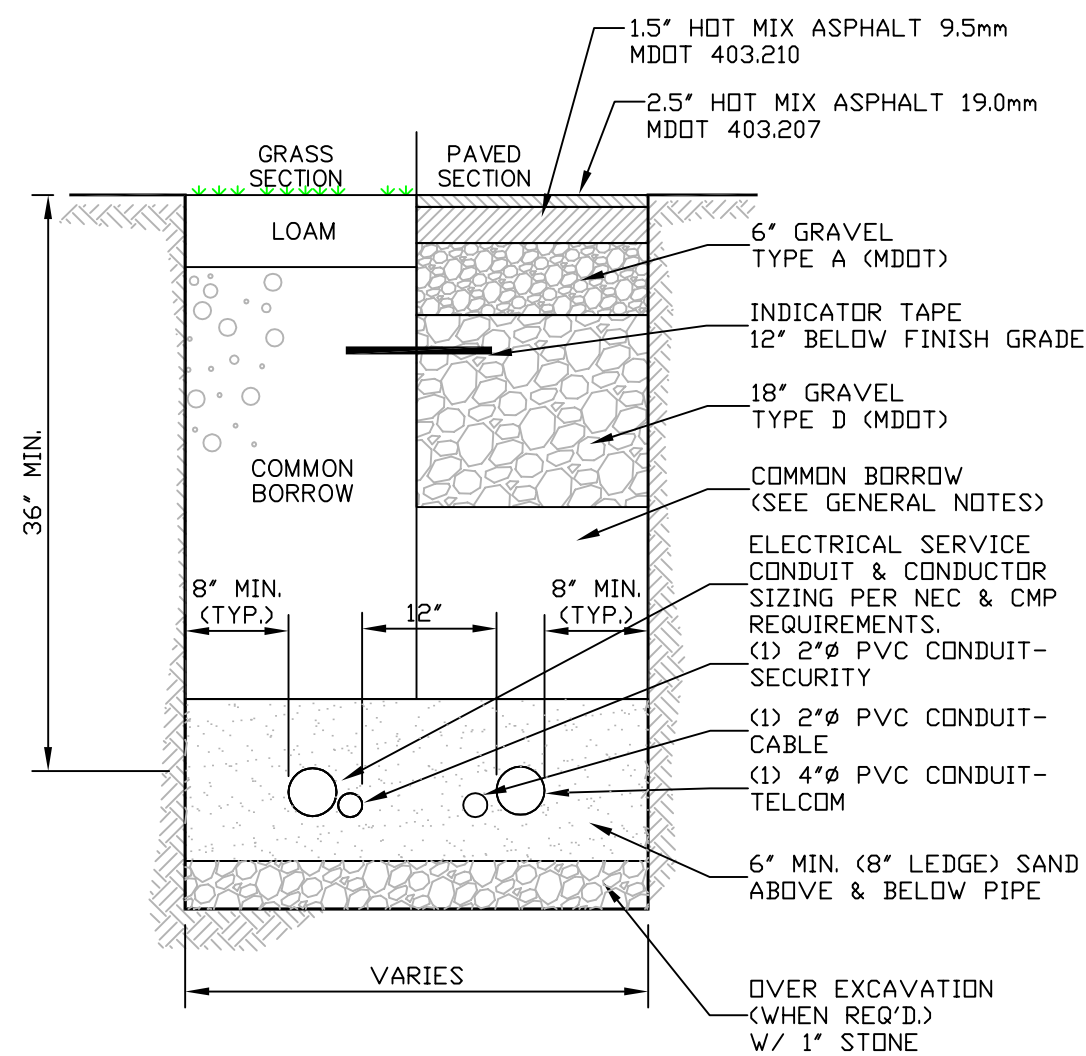
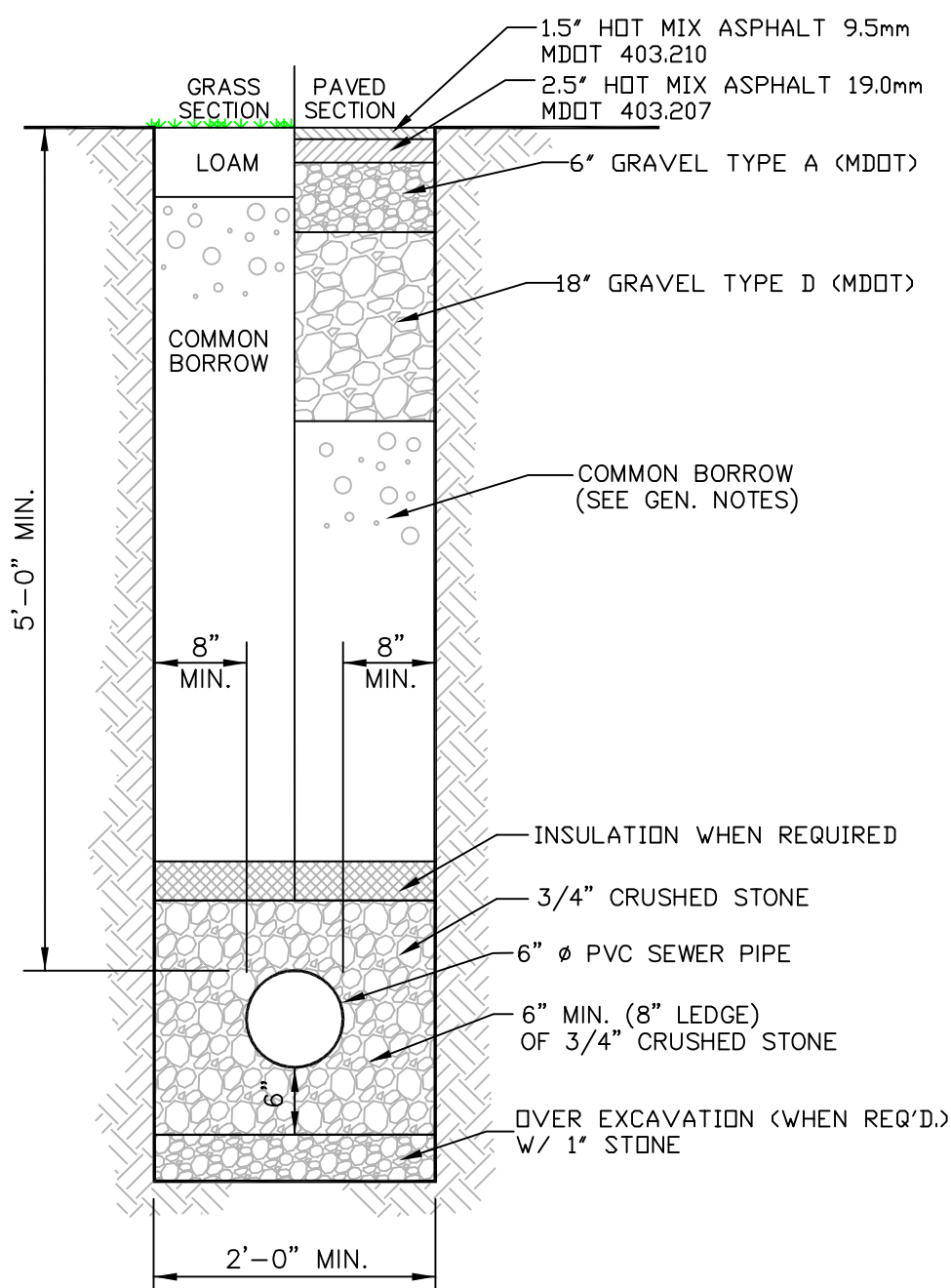
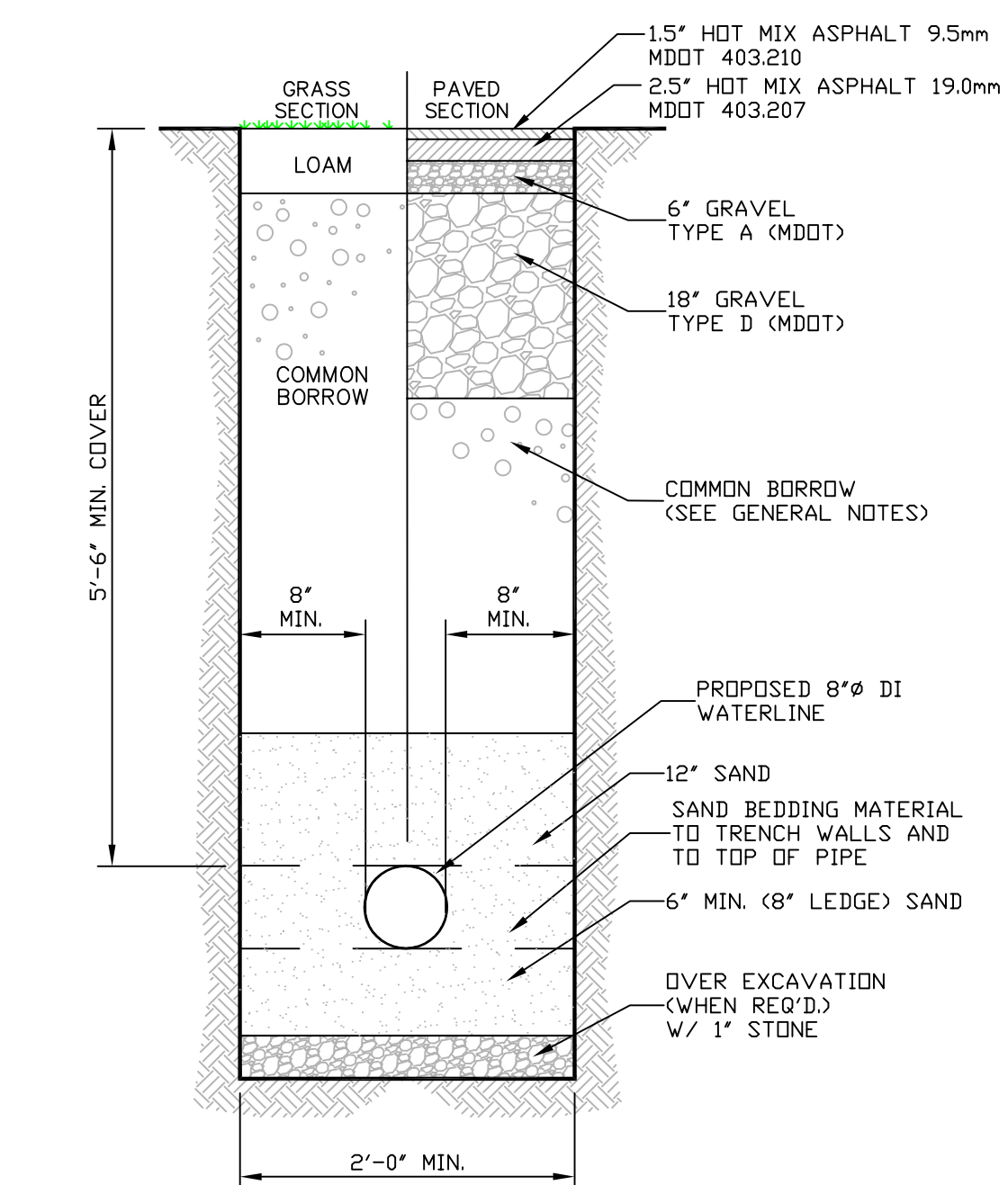
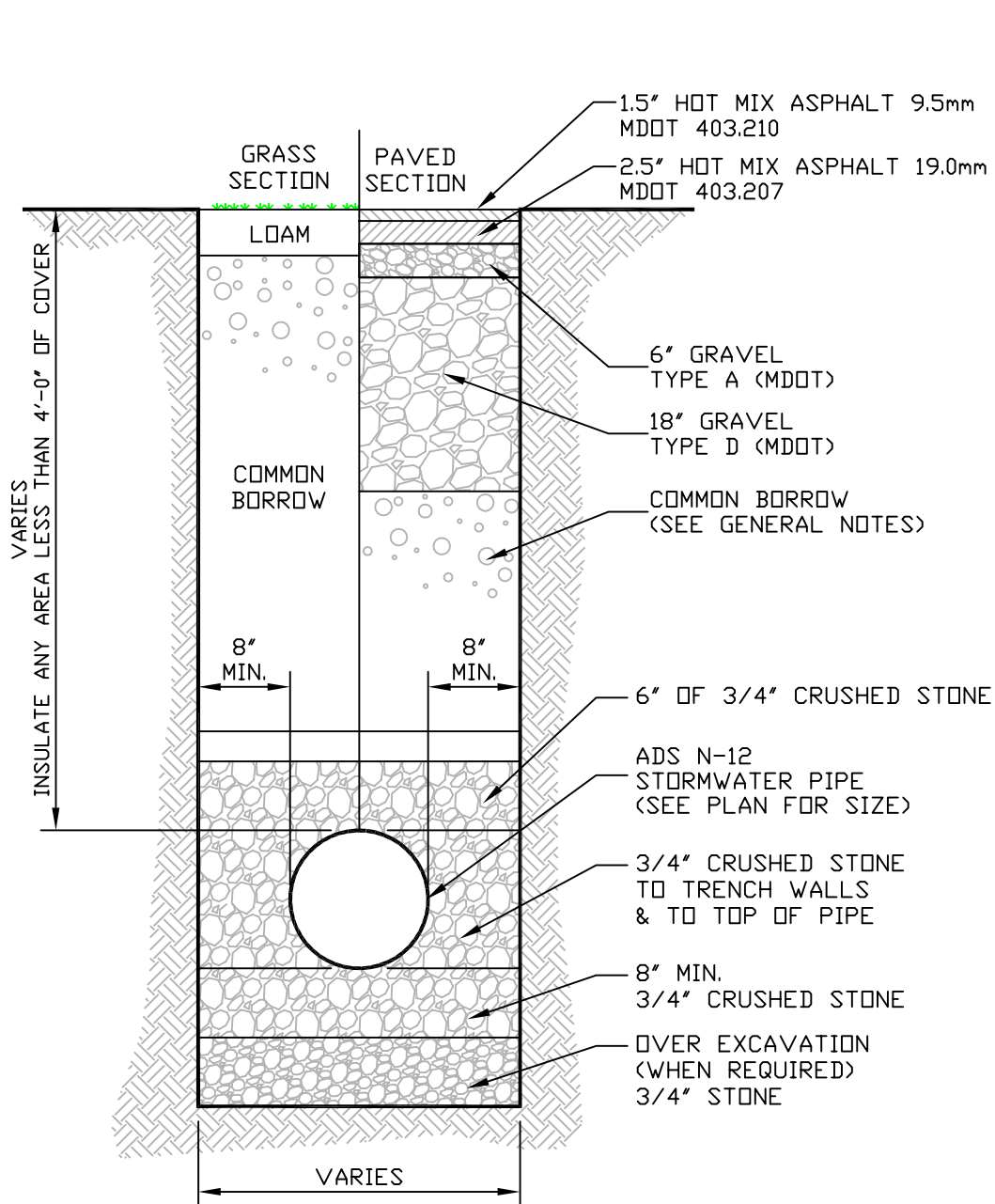
SCALE 3/4" = 1'-0"

SHEET TITLE: SITE DETAILS III	
CLIENT/PROJECT: BADJ PROPERTIES, LLC JOHN CLARK	DRAWN BY: TCH CHECKED BY: JEC
LOCATION: 79 LIPMAN ROAD	DATE: JANUARY 09, 2015
TOWN: AUGUSTA	COUNTY: KENNEBEC STATE: MAINE
PROJ. NO. 2014-281	
C-4	



TRENCH NOTES:

1. CONTRACTOR SHALL COMPLY WITH OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION REGULATIONS PERTAINING TO THE EXCAVATION OF ALL TRENCHES. CONTRACTOR SHALL ALLOW FOR PAYMENT OF ADDITIONAL EXCAVATION, TRENCH BOXES AND BACKFILL WITH REGARD TO COMPLYING WITH ALL OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION STANDARDS.
2. ALL COMMON BORROW AND GRAVEL AREAS TO BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY". PLACE IN 9" TO 12" LIFTS.

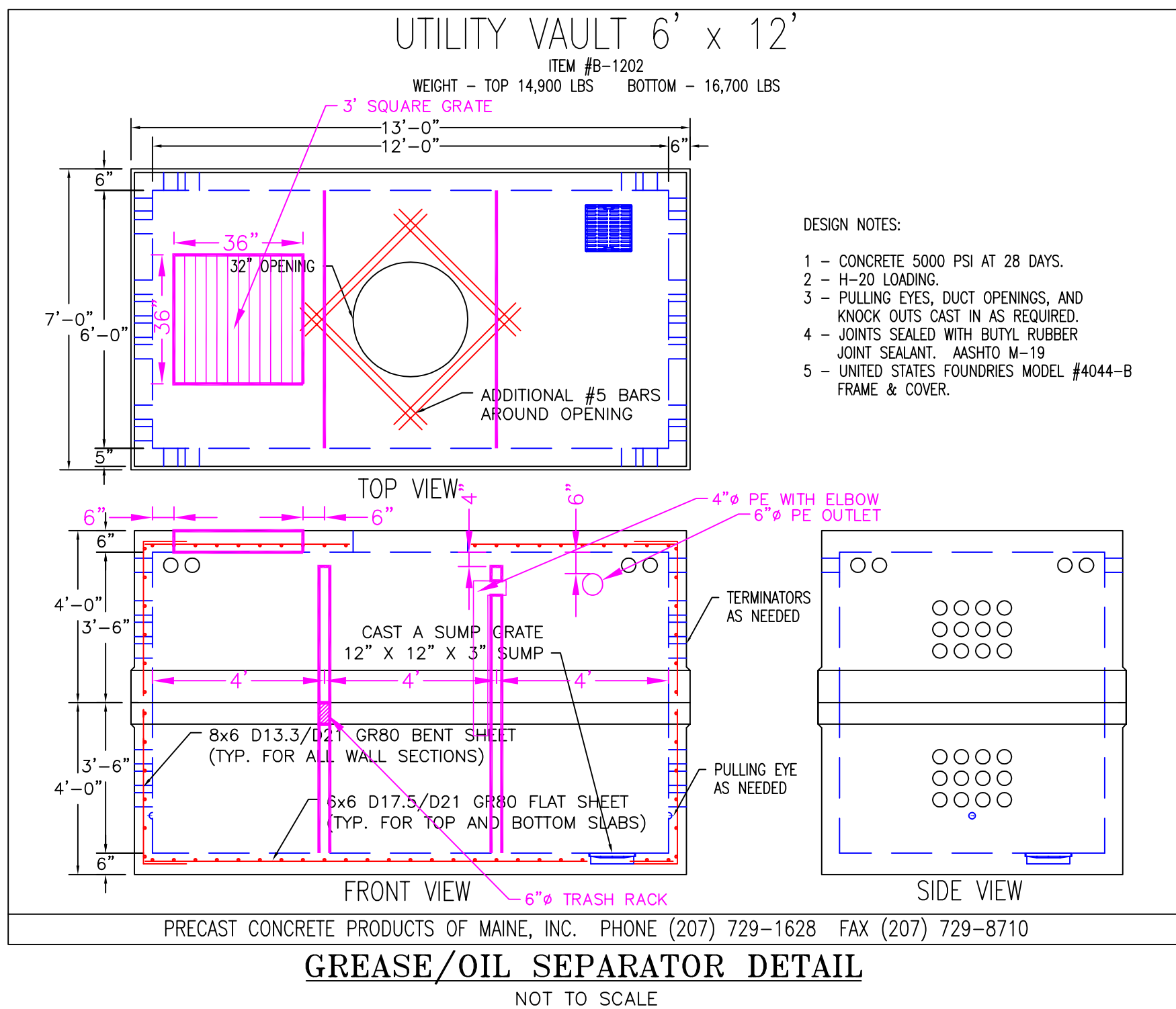
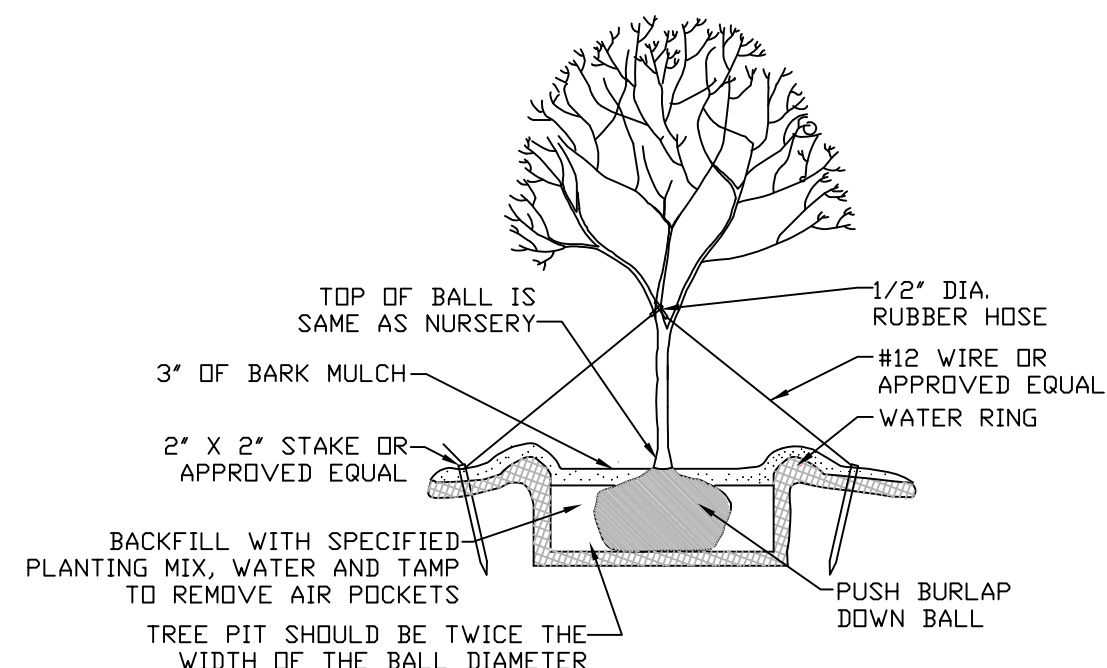
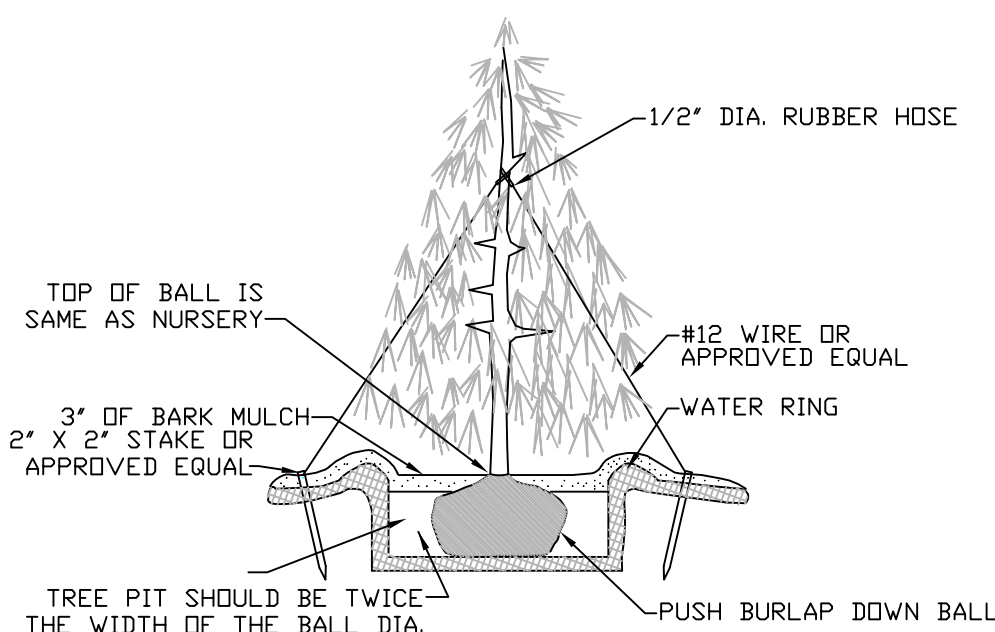
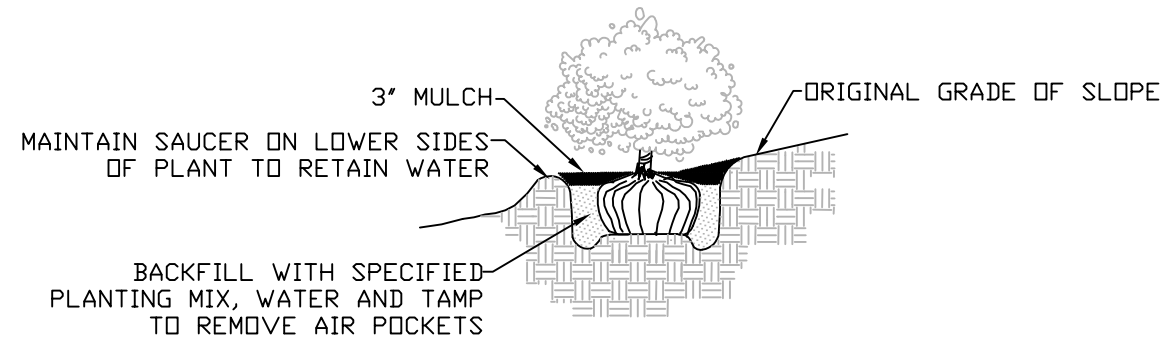


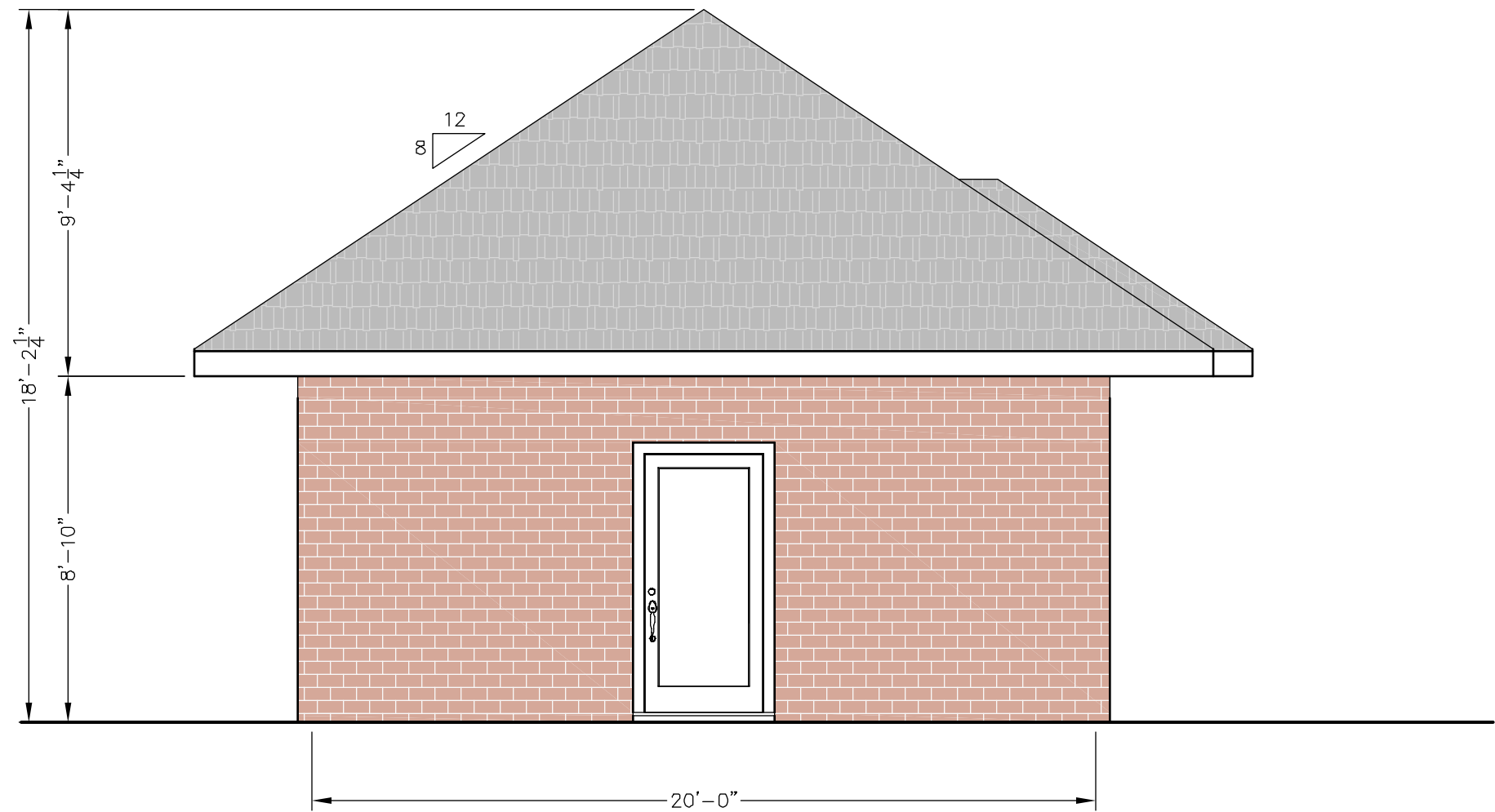
SPECIFICATIONS: MAGNUMFORM II, (RC SERIES)
CAT. No.: RCS-0250H-1PB-1
TYPE III MEDIUM, METAL HALIDE 250

NOTES:

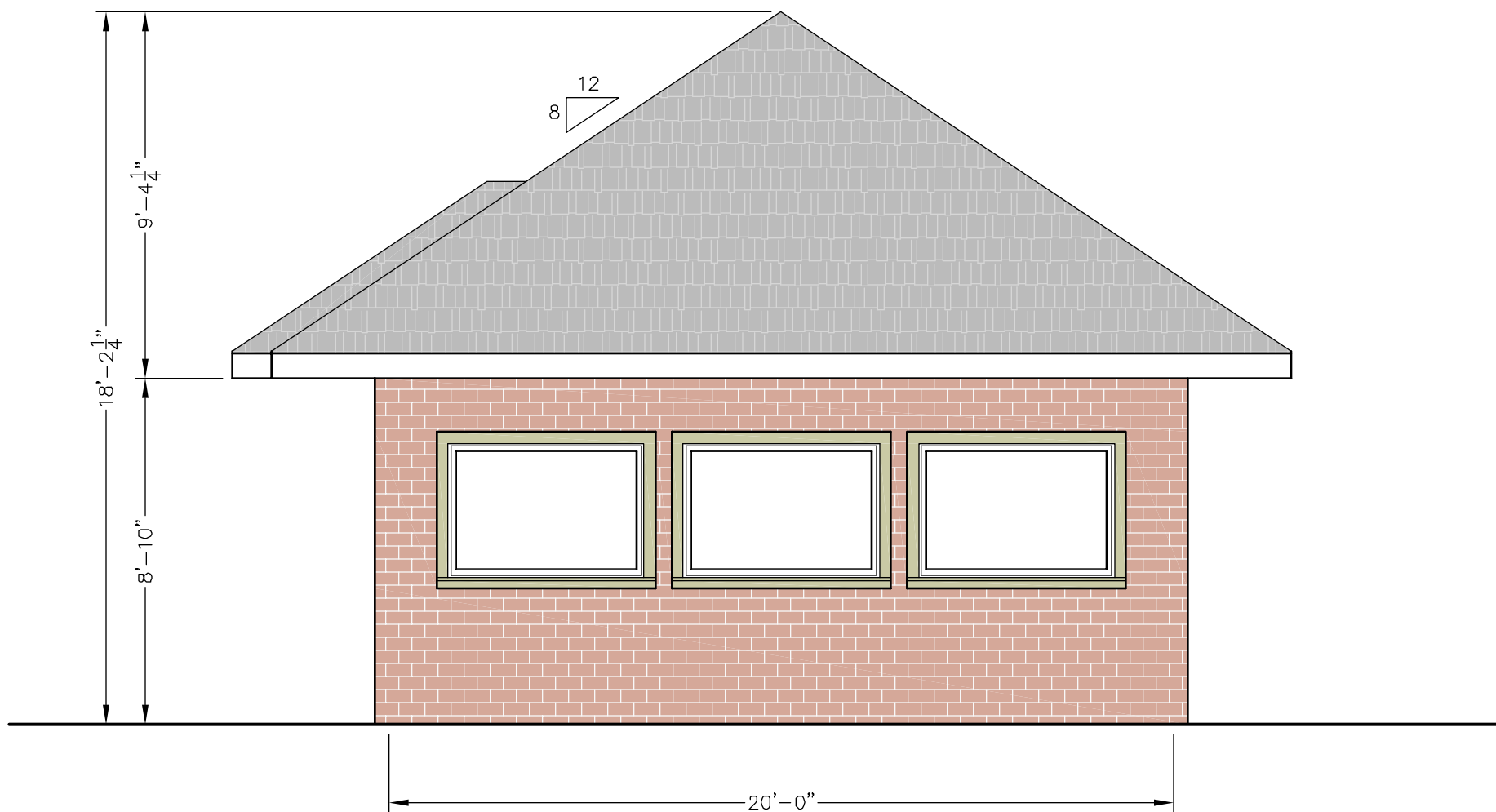
1. CONCRETE: 4,000 P.S.I. AFTER 28 DAYS.
2. REINFORCING: 4 - #4's, SPACED EQUALLY AROUND PERIMETER.
3. 1" CHAMFER @ TOP EDGE OF POLE BASE.
4. CONDUIT & ANCHOR BOLTS PLACED AS REQUIRED, PROVIDED BY ELECTRICAL CONTRACTOR.
5. 6% AIR ENTRANCEMENT

**LIGHT POLE AND PRECAST
CONCRETE LIGHT POLE BASE**
NOT TO SCALE

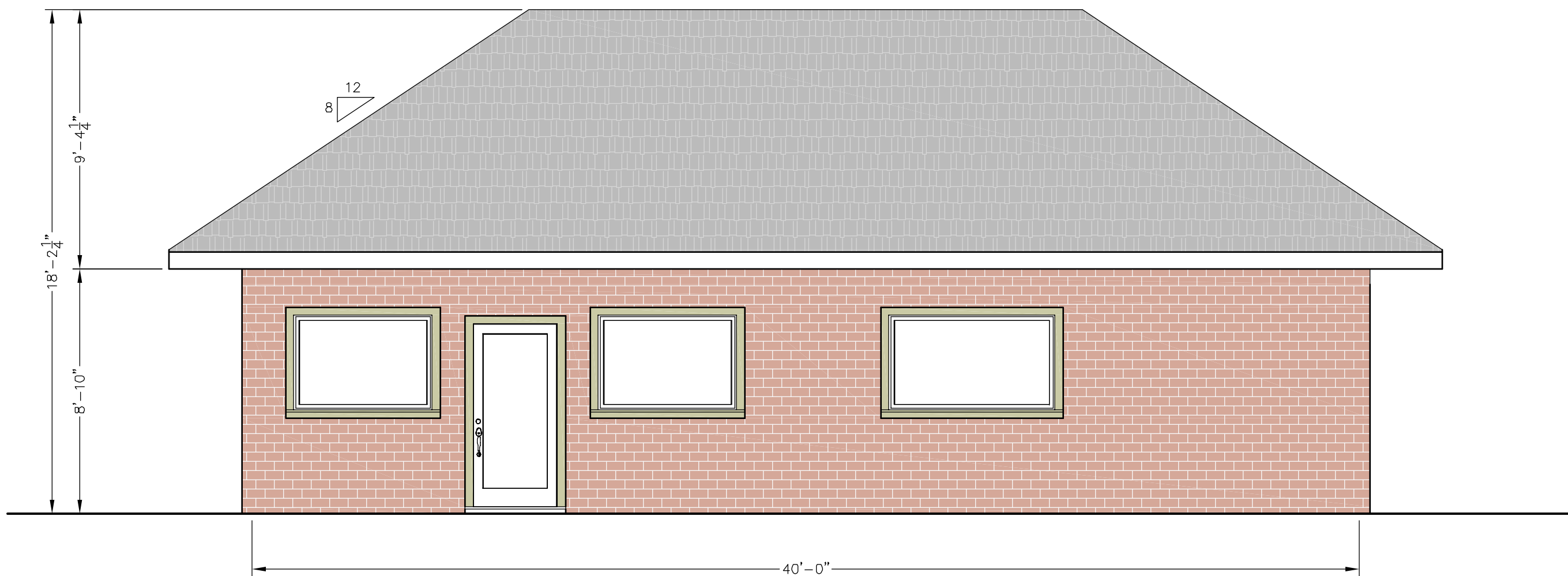




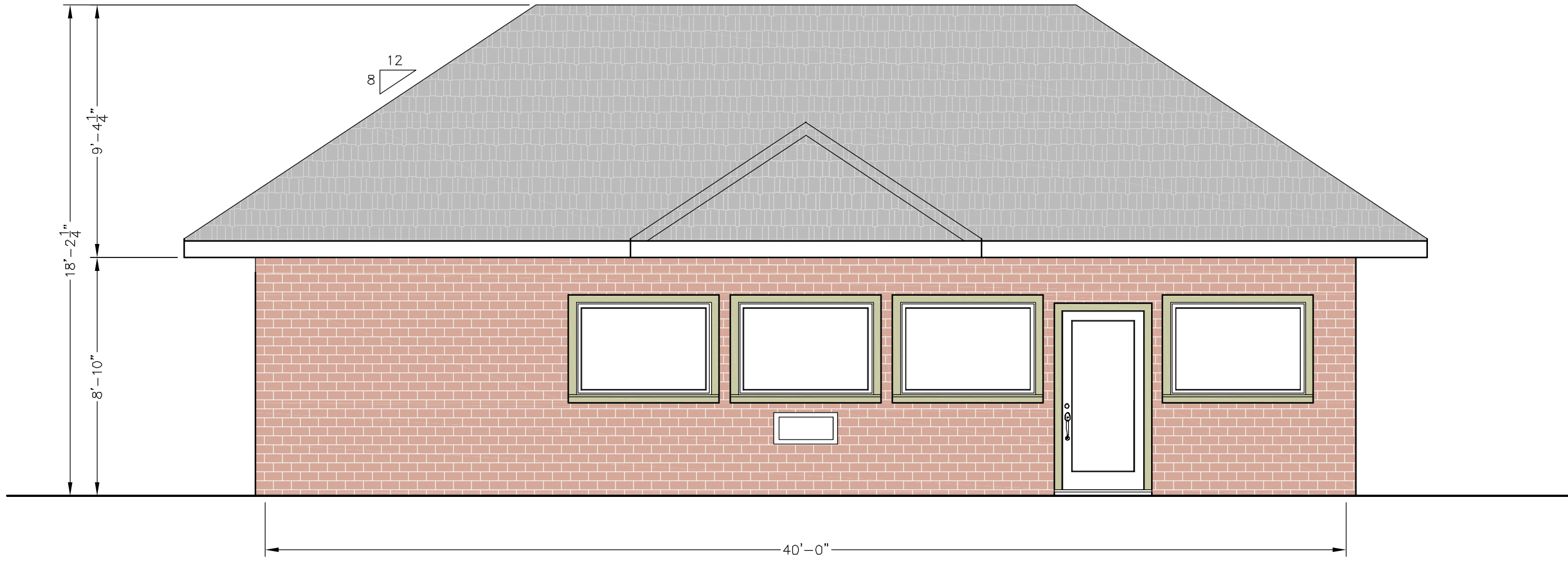
LEFT ELEVATION
SCALE 1/4" = 1'-0"



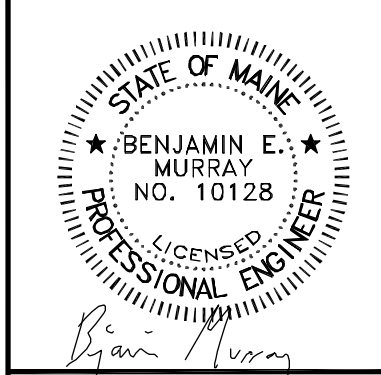
RIGHT ELEVATION
SCALE 1/4" = 1'-0"



REAR ELEVATION
SCALE 1/4" = 1'-0"



FRONT ELEVATION
SCALE 1/4" = 1'-0"



NO.	REVISIONS	DATE

SHEET TITLE: ELEVATIONS		DRAWN BY: JPK
SCALE: 1/4" = 1'-0"		CHECKED BY: BEM
DATE: JANUARY 9, 2015		
CLIENT & PROJECT: BADJ PROPERTIES, LLC. SCALE HOUSE BUILDING	TOWN: AUGUSTA COUNTY: KENNEBEC STATE: MAINE	
LOCATION: 79 LIPMAN ROAD		

PROJ. NO. **2014-281**

A-2